# Expeditionary Warfare Department

**Naval Information Warfare Center ATLANTIC**

Rapidly delivering Command, Control, Communications, Computer, Intelligence and Reconnaissance, Cyber and IT systems and engineering services to meet the information warfare needs of the Marine Corps and Special Operations Command

## Departments

- Fleet C4I and Readiness
- **Expeditionary Warfare**
- Enterprise Systems
- Shore C2ISR and Integration
- Science and Technology

## Expeditionary Warfare Department

**FY20: 633 FTEs**

**73 Programs / Projects**

- Deliver information warfare capabilities to the Marine Corps and Special Operations Command
- Provide full spectrum C4ISR systems and services to Marines and Special Forces
- Engineer end-to-end C4ISR systems in tactical vehicles
- Develop and sustain Enterprise IT system capabilities and solutions

## Customer Areas

- U.S. Marine Corps
- SOCOM
- U.S. Army
- U.S. Air Force

## Leadership

Ashlee Landreth – SSTM Department Head
Pete Ward — Deputy

Division Heads:

Toby Straight – Expeditionary Intelligence Solutions

Pete Ward – Land Systems Integration

Tim Turner – Expeditionary Command, Control and Communications (C3) Solutions

Don Yeske – Expeditionary Enterprise Systems and Services
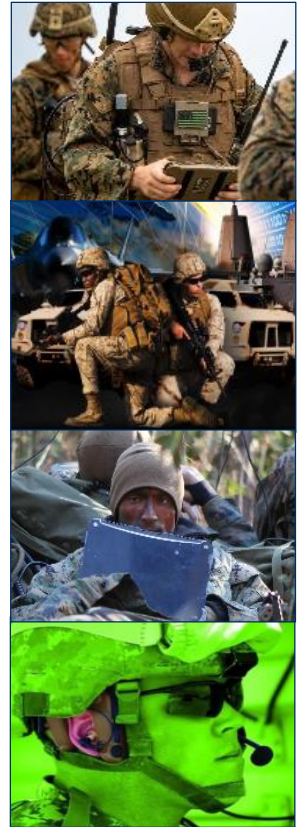
## Warfighting Thrust Areas

- Enterprise IT service engineering that gives our warfighters the tactical advantage through enterprise reach back of core on-premise and Cloud services, cyber sensor and alerting, seamless mobility of 5G battlefield services and continuous agile processes like DevSecOps

- Integrate artificial intelligence/machine learning and visualization technologies to create actionable intelligence for decision-makers. In parallel, field common, platform-agnostic SIGINT and EW solutions for the USMC and SOCOM

- Equip Marines with mobile C3 facilities, systems and services for fused situational awareness, information-sharing and enhanced decision support processes

- Research and develop C4ISR technologies on tactical vehicles to enhance MAGTF maneuver warfare. Integrate/field tactical vehicles with the latest C4ISR technologies for the four services

Areas of Emphasis

- Wargaming and experimentation
- Systems and capabilities that create mobility in the weapons engagement zone
- Naval integration, sea control/sea denial objectives
- Ensuring S&T and R&D progression

## Achievements

- Stood up DevSecOps, multi-pipeline capability called Marine Corps Business Operations Support Services (MCBOSS) to help Marine developers build apps that operate without integration, security and systems concerns (e.g. app developed on VMware Tanzu platform for USMC logistics command with automated capability, allowing teams to push on-the-fly changes into production multiple times a day).

- Obtained U.S. Space Force certification for Marine Corps to test NextGen GPS technology during pandemic-restricted travel validating M-Code GPS signal in New Mexico desert. Also, delivered over 80,000 platforms and 400 design variants.

- Created a Distributed Common Ground/Surface System – Marine Corps (DCGS-MC) baseline and developed connections to data stores that feed data to apps, standardizing connections to a variety of sources and simultaneously ingesting them into the Advanced Analytic Technical Solution (AATS) system as raw intelligence for analysis of/conversion to finished product.

- Integrated a virtual data-sharing network into a Common Hosting Environment (CHE) baseline, reducing size, weight and power by 20-plus-percent each, providing a flexible single scalable capability to USMC while maintaining C2 services and storage on same footprint as one server. Also, obtained licensing for USMC to operate MUOS radios in Bahrain at various frequencies .

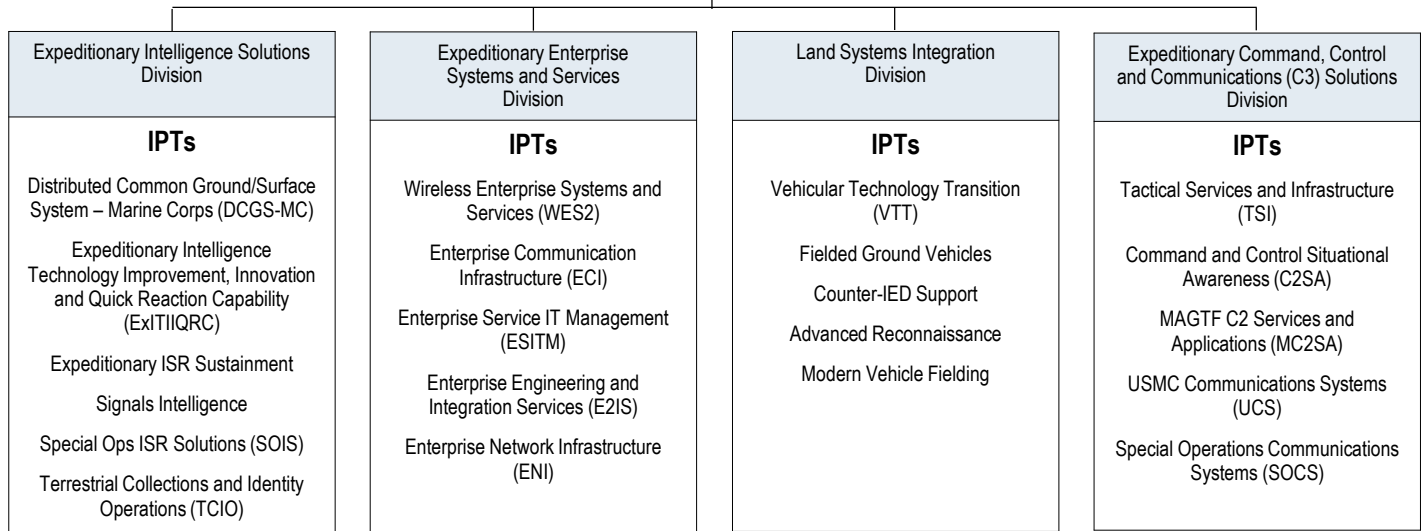## Delivering mission-critical information warfare capabilities to the Warfighter

Naval Information Warfare Center (NIWC) Atlantic is a Navy engineering and Information Technology (IT) Command and part of the Naval Research and Development Establishment.

Our work is shaped by requirements that demand research and engineering with the goal of delivering the operational advantage gained from fully integrating Naval information functions, capabilities and resources to optimize decision making and maximize warfighting effects.

We deliver the products and solutions that help our customers accomplish their mission today and into the future and most importantly, serve our nation by delivering information warfare solutions that protect national security.

## Expeditionary Warfare Department

### Deputy

| Expeditionary Intelligence Solutions Division | Expeditionary Enterprise Systems and Services Division | Land Systems Integration Division | Expeditionary Command, Control and Communications (C3) Solutions Division |
|---|---|---|---|
| **IPTs** | **IPTs** | **IPTs** | **IPTs** |
| Distributed Common Ground/Surface System – Marine Corps (DCGS-MC) | Wireless Enterprise Systems and Services (WES2) | Vehicular Technology Transition (VTT) | Tactical Services and Infrastructure (TSI) |
| Expeditionary Intelligence Technology Improvement, Innovation and Quick Reaction Capability (ExITIIQRC) | Enterprise Communication Infrastructure (ECI) | Fielded Ground Vehicles | Command and Control Situational Awareness (C2SA) |
| Expeditionary ISR Sustainment | Enterprise Service IT Management (ESITM) | Counter-IED Support | MAGTF C2 Services and Applications (MC2SA) |
| Signals Intelligence | Enterprise Engineering and Integration Services (E2IS) | Advanced Reconnaissance | USMC Communications Systems (UCS) |
| Special Ops ISR Solutions (SOIS) | Enterprise Network Infrastructure (ENI) | Modern Vehicle Fielding | Special Operations Communications Systems (SOCS) |
| Terrestrial Collections and Identity Operations (TCIO) | | | |

## Expeditionary Warfare Divisions

- **Expeditionary Intelligence Solutions (EIS) Division**: Provides full spectrum expeditionary intelligence capabilities, technologies and solutions to the Warfighter.

- **Expeditionary Enterprise Systems and Services (E2S2) Division**: Provides the design, acquisition and sustainment of Naval and SOCOM information systems, to include Enterprise telecommunications infrastructure, streamlined and consolidated enterprise services, IT solutions for personnel logistics and enhanced cybersecurity.

- **Land Systems Integration (LSI) Division**: Provides the design, engineering and full scale integration of C4ISR capabilities into tactical military vehicle platforms. Improves efficiency and effectiveness of integrating mission equipment on vehicle platforms for specific mission activities. Provides post-fielding sustainment support.

- **Expeditionary Command, Control and Communications (C3) Solutions (EC3S) Division**: Develops, integrates and equips the Marine Corps and Special Operations Command with mobile C3 facilities, devices and services that provide fused situational awareness, facilitate information sharing and enhances the decision support process.